BBA

Biomembranes

Vol. 1108, 1992

Cumulative Contents

Regular Papers

Amino acid transport System L in muscle cells: biochemical properties and its relation to protein synthesis
J.-y. Yeh, B.-r. Ou and N.E. Forsberg (USA) 1

Electrical transients produced by the toad bladder in response to altered serosal composition at constant osmolality
L.G.M. Gordon (New Zealand) 8

The interaction of spermine with the ryanodine receptor from skeletal muscle
A. Zarka and V. Shoshan-Barmatz (Israel) 13

The essential role of specific *Halobacterium halobium* polar lipids in 2D-array formation of bacteriorhodopsin
B. Sternberg, C. L'Hostis, C.A. Whiteway and A. Watts (UK, Germany) 21

Effect of the unsaturation of phospholipid acyl chains on leucine transport of *Lactococcus lactis* and membrane permeability
G. In 't Veld, A.J.M. Driessen and W.N. Konings (Netherlands) 31

Repulsive interactions and mechanical stability of polymer-grafted lipid membranes
D. Needham, T.J. McIntosh and D.D. Lasic (USA) 40

A sequential mechanism for the formation of aqueous channels by amphotericin B in liposomes. The effect of sterols and phospholipid composition
B.E. Cohen (Venezuela) 49

A calcium and ATP sensitive nonselective cation channel in the antiluminal membrane of rat cerebral capillary endothelial cells
R. Popp and H. Gögelein (Germany) 59

High-affinity, equilibrative nucleoside transporter of pig kidney cell line (PK-15)
J.M. Aran and P.G.W. Plagemann (USA) 67

Site-directed antibodies as topographical probes of the gastric H,K-ATPase α-subunit
A. Smolka and K.M. Swiger (USA) 75

Photodynamic treatment of yeast cells with the dye Toluidine blue: all-or-none loss of plasma membrane barrier properties
M. Paardekooper, P.J.A. Van den Broek, A.W. De Bruijne, J.G.R. Elferink, T.M.A.R. Dubbelman and J. Van Steveninck (Netherlands) 86

Triiodothyronine binding sites in the rat erythrocyte membrane: involvement in triiodothyronine transport and relation to the tryptophan transport System T
M. Samson, J. Osty, J. Francon and J.-P. Blondeau (France) 91

Steroid-induced perturbations of membranes and its relevance to sperm acrosome reaction
S. Shivaji and M.V. Jagannadham (India) 99

Changes in the nature of calcium transport systems on the porcine sperm plasma membrane during epididymal maturation
N. Okamura, A. Fukuda, M. Tanba, Y. Sugita and T. Nagai (Japan) 110

Double helix formation of phosphatidylcholine myelin figures
K. Mishima, K. Fukuda and K. Suzuki (Japan) 115

Rapid Report

Dual effects of calcium on ATP-sensitive potassium channels of frog skeletal muscle
P. Krippeit-Drews and U. Lönnendonker (Germany) 119

Regular Papers

Structures of amphotericin B-cholesterol complex
V.E. Khutorsky (Israel) 123

Fatty acylation of a 55 kDa membrane protein of human erythrocytes
A.K. Das, M. Kundu, P. Chakrabarti and J. Basu (India) 128

Transport of procainamide in a kidney epithelial cell line LLC-PK_1
M. Takano, M. Kato, A. Takayama, M. Yasuhara, K.-i. Inui and R. Hori (Japan) 133

Basolateral Cl^-/HCO_3^- exchange in rat jejunum: evidence from $H^{14}CO_3^-$ uptake in membrane vesicles
M.N. Orsenigo, M. Tosco and A. Faelli (Italy) 140

continued

pH_i controls cytoplasmic calcium in rat parotid cells
K.W. Snowdowne, B. Way, G. Thomas, H.Y. Chen and J.R. Cashman (USA) 145

Cytoplasmic location of amino acids 359–440 of the *Neurospora crassa* plasma membrane H^+-ATPase
U.S. Rao, D.D. Bauzon and G.A. Scarborough (USA) 153

Cooperative gating of chloride channel subunits in endothelial cells
A. Queyroy and J. Verdetti (France) 159

K^+/H^+ exchange in yeast mitochondria: sensitivity to inhibitors, solubilization and reconstitution of the activity in proteoliposomes
S. Manon and M. Guérin (France) 169

Conditions modulating the ionic selectivity of transport by monensin examined on *Enterococcus hirae (Streptococcus faecalis)* by ^{23}Na-NMR and K^+ atomic absorption
F. Rabaste, G. Jeminet, G. Dauphin and A.-M. Delort (France) 177

Tyrosine protein kinase activity in renal brush-border membranes
L. Tremblay, D. Gingras, D. Boivin and R. Béliveau (Canada) 183

Cis-allosteric effects of cytoplasmic Na^+/K^+ discrimination at varying pH. Low-affinity multisite inhibition of cytoplasmic K^+ in reconstituted Na^+/K^+-ATPase engaged in uncoupled Na^+-efflux
F. Cornelius (Denmark) 190

Chemical exchange between lamellar and non-lamellar lipid phases. A one- and two-dimensional ^{31}P-NMR study
D.B. Fenske and P.R. Cullis (Canada) 201

Citrate as an aluminum chelator and positive effector of the sodium efflux in single barnacle muscle fibers
E.E. Bittar, Z. Xiang and Y.-P. Huang (USA) 210

Levitation, holding, and rotation of cells within traps made by high-frequency fields
G. Fuhr, W.M. Arnold, R. Hagedorn, T. Müller, W. Benecke, B. Wagner and U. Zimmermann (Germany) 215

Membrane-structuring properties of bacterial long-chain alkylresorcinols
V.V. Bitkov, V.A. Nenashev, N.N. Pridachina and S.G. Batrakov (Russia) 224

Generation and characterization of iron- and barium-loaded liposomes
A.C. Chakrabarti, J.A. Veiro, N.S. Wong, J.J. Wheeler and P.R. Cullis (Canada) 233

Lipid modulation of nicotinic acetylcholine receptor function: the role of neutral and negatively charged lipids
C. Sunshine and M.G. McNamee (USA) 240

Rapid Reports

Occlusion of Rb^+ after extensive tryptic digestion of shark rectal gland Na,K-ATPase
M. Esmann and L. Sottrup-Jensen (Denmark) 247

Lipid microsphere containing lipophilic heme: preparation and oxygen transportation under physiological conditions
E. Tsuchida, H. Nishide, T. Komatsu, K. Yamamoto, E. Matsubuchi and K. Kobayashi (Japan) 253

Some negatively charged phospholipid derivatives prolong the liposome circulation in vivo
Y.S. Park, K. Maruyama and L. Huang (USA) 257

Cumulative Contents, Vol. 1108 261

Author Index 263